

5 **What is claimed is:**

1. A method of applying a two-component pavement marking composition comprising:
providing a two-component composition wherein a first part is provided in a first
chamber and a second part is provided in a second chamber and wherein the first and
second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
advancing the first part and second part into a mixing device forming a mixture; and
dispensing the mixture with an applicator onto pavement.
2. The method of claim 1 wherein the total volume of the first and second chambers is
less than 5 liters.
3. The method of claim 1 wherein the composition is provided in a hand-held gun-type
applicator.
- 20 4. The method of claim 1 wherein the first chamber and second chamber are provided in
the form of a removable cartridge.
5. The method of claim 4 wherein the removable cartridge comprises a rigid material.
- 25 6. The method of claim 5 wherein the removable cartridge comprises molded plastic.
7. The method of claim 5 wherein the removable cartridge comprises lined cardboard.
8. The method of claim 4 wherein the removable cartridge is disposable.
- 30 9. The method of claim 1 wherein the first chamber and second chamber are provided by
a rigid housing.
10. The method of claim 9 wherein removable collapsible tubes are provided within the
first and second chambers.

5 11. The method of claim 9 wherein the two-component composition is poured into the first and second chambers.

10 12. The method of claim 1 wherein the mixing device is a static mixer.

15 13. The method of claim 12 wherein the static mixer comprises a rigid plastic material.

20 14. The method of claim 13 wherein the static mixer is disposable.

25 15. The method of claim 1 wherein the applicator is a spray head

30 16. The method of claim 15 wherein the spray head dispenses the mixture as a mist.

35 17. The method of claim 1 wherein the applicator provides a substantially continuous line having a width of at least about 5 cm.

40 18. The method of claim 17 wherein the line has a film thickness of at least about .25 mm when dispensed at a distance of less than about 15 cm.

45 19. The method of claim 1 wherein the applicator is a ribbon extrusion head.

50 20. The method of claim 1 further comprising embedding a plurality of optical elements in the mixture after dispensing the mixture on the pavement.

55 21. A method of applying a two-component pavement marking composition comprising:
30 providing a two-component composition wherein a first part is provided in a first chamber and a second part is provided in a second chamber and wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 20 liters;
35 advancing the first part and second part into a mixing device forming a mixture; and dispensing the mixture with an applicator onto pavement;
40 wherein the composition is provided in an apparatus that is substantially free of hoses that continuously meter the composition.

22. A method of applying a two-component pavement marking composition comprising:
providing a two-component composition in a cartridge wherein a first part is provided
in a first chamber of the cartridge, a second part is provided in a second chamber of the
cartridge and the cartridge has a total volume ranging from about 0.1 liters to about 5
liters;
- 10 mixing the first part and second part by means of advancing the first part and second
part through a disposable static mixing tube;
- dispensing the mixture onto pavement with a spray applicator.
- 15 23. An apparatus comprising:
a means for accepting a cartridge wherein the cartridge comprises at least two
chambers wherein the first chamber comprises a first part of a two-part
composition and the second chamber comprises a second part of a two-part
composition;
- 20 a means for advancing the first part and the second part from the cartridge into a
static mixing device forming a mixture; and
a means for spraying the mixture.
- 25 24. The apparatus of claim 23 wherein the first and second chambers have a total volume
of less than 5 liters.
25. The apparatus of claim 23 wherein the apparatus is substantially free of hoses that
continuously feed meter the composition.
- 30 26. The apparatus of claim 23 wherein the cartridge is comprised of a rigid plastic
material.
27. The apparatus of claim 23 wherein the static mixing device is a disposable static
mixing tube.

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28. The apparatus of claim 23 wherein the means for spraying provides the mixture as a mist.
29. The apparatus of claim 23 wherein the apparatus is a hand-held gun-type applicator.
- 10 30. The apparatus of claim 23 further comprising a harness.
31. The apparatus of claim 23 wherein the apparatus is further attached to a cart having wheels.
- 15 32. An apparatus comprising:
a first chamber and a second chamber wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
a means for advancing the composition provided in the chambers into a static mixing device forming a mixture; and
20 a means for spraying the mixture.
33. An apparatus comprising:
a first chamber and a second chamber wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 20 liters;
25 a means for advancing a composition provided in the chambers into a static mixing device forming a mixture; and
a means for spraying the mixture;
wherein the apparatus is substantially free of hoses that continuously meter the composition.
- 30 34. A method of applying a two-component composition comprising:
providing a two-component composition wherein the first part is in a first chamber and the second part is in a second chamber and wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
advancing the first part and the second part into a static mixing device forming a mixture; and

5 dispensing the mixture with a spray applicator.

35. A method of applying a two-component composition comprising:
providing a two-component composition wherein the first part is in a first chamber and
the second part is in a second chamber and wherein the first and second chambers have
a total volume ranging from about 0.1 liters to about 20 liters;
advancing the first part and the second part into a static mixing device forming a
mixture; and
dispensing the mixture with a spray applicator;
wherein the composition is provided in an apparatus that is substantially free of hoses
that continuously meter the composition.
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36. A pavement surface having a marking prepared according to the method of claim 1.
37. A pavement surface having a marking prepared according to the method of claim 21.
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38. A pavement surface having a marking prepared according to the method of claim 22.